

The action of tetraethyl lead upon the octane number of aviation gasoline. Z. V. Nekler and R. Zalivayakai Novosti Tekhniki 1030, No. 20, 18-19; Novosti Naftopromyshlennosti 3, No. 17, 6-7 (1930). Gatsby aviation gasoline was most affected by addn. of PbHg. Its octane no. increased by 10 units after the addn. of 0.8 cc. of PbHg, and by 18 units after an addn. of 2 cc. The octane no. of the Mukop gasoline increased after the addn. of 0.5 cc. by 0.5 units, and by 10.6 units after an addn. of 2 cc. of PbHg. The mixt. ronq. thiony gasoline have a sensitivity toward PbHg approaching that of the Gatsby gasoline, but i.e. decreased the sensitivity of the mixt. to 1/4 1/4. A mixt. of the Mukop gasoline (25%) with that of Haku (65%), after the addn. of 2 cc. of PbHg, yielded a good motor fuel with octane no. of 87. A table with data is appended. A. A. Podgorny

ASU-SEA METALLURGICAL LITERATURE CLASSIFICATION

CA

22

A comparative evaluation of octane numbers of fuels according to the CFR motor and army methods. E. Zabryanskii. Neftegaz Kho. 1939, No. 10-11, 37-41; Neftegaz. Zhur. 1940, No. 5, 104.—For all fuels, regardless of origin, contg. PbEt<sub>4</sub>, the "array method" (II) gives equal or higher values of the octane no. than does the CFR motor method (I); in fuels that do not contain PbEt<sub>4</sub>, I gives lower values than II. For straight-run gasolines of octane no. 85-100 and contg. PbEt<sub>4</sub>, I gives octane nos. higher by 2-3 units, than does II. W. R. H.

## ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

ITEMS	SUBJECT	SEARCH FILE ONLY SEE		COLLECTIONS		SEARCH FILE ONLY SEE	
		1	2	3	4	5	6
1	2	3	4	5	6	7	8

**Methods for Determining Octane Numbers over 100.** R. I. Zalewski, A. A. Dobrynia and N. S. Prokin. *Vestniz Akad Nauk UkrSSR*, 22, No. 6, 63-75 (1941); *Clem. Zentr.* 1943, II, 979-80.—For determination of octane nos. over the range of 100-120, a method is used which is based on the permissible compression index. This is the ratio between the compression ratio for the fuel in question and that for pure heptane. The compression ratio is determined for heptane-heptane mixts. with octane nos. from 85 to 100; the consts. in the Brooks and Clinton formula are deduced from these data, and the equation is used for the extrapolation of the octane nos. above 100. This method differs little from the array method; tests are carried out in a CFR test engine under the following standard conditions: c. p. m. 1200; air temp. 100°; cylinder jacket 165°; pre-ignition varying with compression (for compression ratios of 8, 9, 8 and 10, ignition is advanced 30°, 11°, 20° and 23°, resp.); the carburetor is adjusted to give max. knock, knock intensity is measured with a thermocouple in the cylinder head. Since the fuels are compared according to cylinder-head temps., some fuels especially sensitive to elevated temps. give somewhat low results by this method. R. W. Ryan.

## **AMERICAN METALLURGICAL LITERATURE CLASSIFICATION**

卷之三

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

2695. DETONATION RESISTANCE OF INDIVIDUAL HYDROCARBONS. Vol'f, M. B. and Zabryanskii, E. I. (Neft. Khim., 1947, (12), 35-47). Engine tests were carried out by the I-C method on a number of pure (96-99%) hydrocarbons. Rich mixture anti-knock properties were evaluated by the index I.N. (I.N.). Blending I.N. was determined for mixtures of the hydrocarbons with 4 m., ethyl fluid (containing 49.6% T.E.L.) per kg. The other component of the blend was in most cases a mixture of 85% iso-octane with 15% n-heptane. The I.N. determined were in the range of -200 (n-heptane) to 296 (cyclohexane). Apart from n-butylbenzene (117) the aromatic hydrocarbons had high ( $> 200$ ) I.N. With the exception of cyclohexane other six-membered cyclanes had low (23-155) I. N. the I.N. of isooctane (2:2:4-trimethyl-petane) was 162. The blending I. N. of aromatic hydrocarbons is markedly influenced by the nature of the second component of the blend, cyclanes and alkanes being much less sensitive in this respect. At rich mixture operation, the aromatic hydrocarbons showed high-lead susceptibility. The relative change in anti-knock properties on enrichment of the mixture can be denoted by the value of  $\tan \beta$ , where  $\beta$  is the angle formed by the

## ARMED METALLURGICAL LITERATURE CLASSIFICATION

FROM THIS INFORMATION

TO THIS INFORMATION

INDEXED BY

SEARCHED AND INDEXED

FILED AND MAILED

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

Intersection of a line joining the points of maximum and minimum indicated mean pressure with the abscissa.

I.P.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

ZABRYANSKIY, Ye. I

Chemistry

"Calculating the Antiknock Properties of  
Motor Fuels", Gostoptekhizdat, 1948

Summary No. 60, 26 May 52, BR-52056899

ZABRYANSKIY, YE. I.

AID P - 2100

Subject : USSR/Chemistry

Card 1/2 Pub. 78 - 13/24

Authors : Zabryanskiy, Ye. I. and Malyavinskiy, L. V.

Title : Determination of the detonation stability of gasoline  
by the "research" method

Periodical: Neft. khoz., v.33, no.4, 56-61, Ap 1955

Abstract : The author outlines the two methods of testing the detonation characteristics of gasoline, the "engine" and the "research" methods. "Research" testing is applied at lower engine revolutions, lower gas-air temperature on entering the cylinder chamber, and with a constant time-lead of ignition not depending upon the pressure of the ignited mixture. The work of a light automobile engine in city traffic conditions corresponds better to conditions applied in the "research" method, whereas heavy truck engines in long-distance

AID P - 2100

Neft. khoz., v.33, no.4, 56-61, Ap 1955

Card 2/2 Pub. 78 - 13/14

non-stop driving work under conditions that correspond more nearly to "engine" test conditions. Tables, charts.

Institution: None

Submitted : No date

ZABRYANSKII, Yefim Il'ich; ZARUBIN, Aleksandr Pavlovich; L'VOVA, I.A.,  
vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Detonation power and Combustibility of motor fuels] Detonatsionnaya  
stoikost' i vosplameniaemost' motornykh topliv. Moskva, Gos. nauchno-  
tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1958. 208 p.  
(Motor fuels) (NIRA 11:4)

5/0065/64/000/c05/0023/0029

ACCESSION NR: AP4036979

AUTHOR: Vol' Epshteyn, A. B.; Zabryanskiy, Ye. I.; Krichko, A. A.; Lesokhina, G. F.; Malyavinskiy, L. V.; Mukhina, T. N.; Robert, Yu. A.

TITLE: Production and motor properties of gasolines from pyrolysis products

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1964, 23-29

TOPIC TAGS: gasoline, production, motor property, octane number, pyrolysis resin, pyrocondensate, low pressure hydrogenation, high octane gasoline, aluminum cobalt molybdenum catalyst, monoolefin, antidegradation property, octane rating

ABSTRACT: Conditions were developed for the low pressure hydrogenation of fractions of pyrolysis resins and pyrocondensates to obtain high octane gasolines. Pyrolysis resins of the ethylene system and pyrocondensates of the butylene-divinyl system, boiling up to 200°C, were hydrogenated at 10-40 atmospheres at a space velocity of 1.6-8.5 hr<sup>-1</sup> in the presence of a technical aluminum-cobalt-molybdenum catalyst using a hydrogen:crude oil volume ratio of 500-800:1. In the hydrogenation of the pyrolysis resins at 40 atm. from 225-300°C it was found that 2350 was optimum: 75% of the dienes were hydrogenated to monoolefins; at higher temperatures the

Card

1/3

ACCESSION NR: AP4036979

higher octane number monoolefins were hydrogenated to saturated hydrocarbons. The octane ratings were obtained on 1 cylinder test units IT9-2 and IT9-6 and auto-engines NZMA-407. Changing the depth of hydrogenation of the unsaturated hydrocarbons of the highly aromatic distillates of these pyrolysis resins had little effect on the antidentalation properties of the gasolines; these had octane numbers of 86-96 by the motor method and 99-110 by the test unit method. Increasing the depth of hydrogenation of the unsaturated hydrocarbons of gasoline from pyrocondensates having a lower aromatic hydrocarbon content somewhat lowered its antidentalation properties; the octane number was lowered from 78.5 to 75.0 upon complete hydrogenation. It was shown that hydrogenated gasolines from pyrolysis resins of gaseous and liquid hydrocarbons can be used as highoctane components in the production of automobile gasolines. Gasolines A-66 (e.g., from commercial A-56 / 20% hydrogenated gasolines), A-72 (commercial A-66 / 30% hydrogenated gasolines) and A-80 (commercial A-72 / 45% hydrogenated gasolines) have higher antidentalation properties than commercial gasolines bearing these designations. Orig. art. has: 5 tables and 2 figures.

ASSOCIATION: IOI, VNIIL NP, NIISS

Card

2/3

ACCESSION NR: AP4036979

SUBMITTED: 00

DATE ACQ: 05Jun64

ENCL: 00

SUB CODE: FP

NO REF Sov: 005

OTHER: 004

Card 3/3

L 20368-66

EWI(m)/T WE

ACC NR: AP6006449

(A)

SOURCE CODE: UR/0065/66/001/002/0044/0047

AUTHORS: Zabryanskiy, Ye. I.; Polimonov, Ye. I.; Grebenschikov, V. P.

61

B

ORG: VNII NP

TITLE: Investigation of the effect of pressurization on the inflammability of  
diesel fuels

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 2, 1966, 44-47

TOPIC TAGS: diesel engine, diesel fuel, fuel ignition, pressure effect

ABSTRACT: The object of this investigation was to determine whether the common procedure of evaluating diesel fuels in terms of their cetane numbers is applicable to pressurized diesel fuels. The cetane number of pressurized and unpressurized diesel fuel was determined. The experimental procedure followed here was that specified by GOST-3132-52. The diesel installation used was of type IL-3. A correlation between the compression ratio and angle of turn of the crankshaft was obtained. The experimental results are presented in graphs and tables (see Fig. 1). It is concluded that pressurization of diesel fuels does not require a change in

Card 1/2

UDC: 621.43.057:665.521.4

L 20368-66  
ACC NH: AP6006449

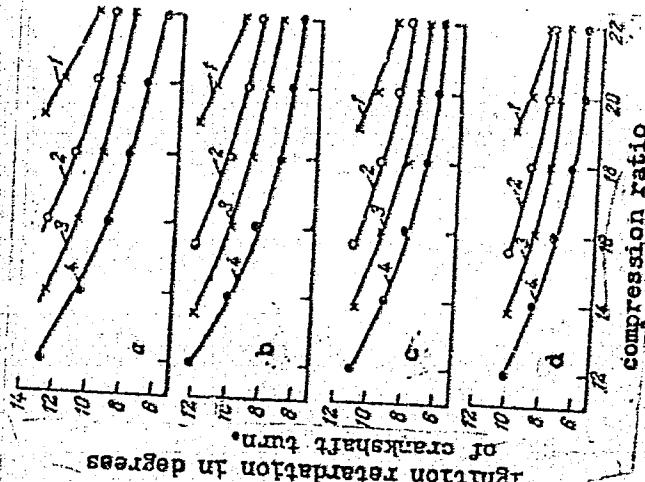


Fig. 1. Relation between the compression ratio and angle of ignition retardation during operation on fuels with different cetane numbers; magnitude of pressurization Pabs, kg/cm<sup>2</sup>: a - without pressurization; b - 1.17; c - 1.34; d - 1.5; cetane number of fuels: 1 - 20; 2 - 30; 3 - 40; 4 - 60.

Ignition retardation in degrees of crankshaft turn.  
the evaluation of their performance. Orig. art. has: 1 table and 4 graphs.

SUB CODE: 11/ SUBM DATE: none/

Card 2/2 vmb

ACC NH: AP6009552

DJ/WE

SOURCE CODE: UR/0413/66/000/005/6199/0099

INVENTOR: Aronov, D. M.; Robert, Yu. A.; Zabryanskiy, Ye. I.; Malyavinskiy, L. V.; Grebenishchikov, V. P.

ORG: none

TITLE: Test method for fuels and oils. Class 46, No. 179555 [announced by the All-Union Scientific Research Institute for Oil and Gas Refining and the Production of Synthetic Liquid Fuel (Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topiva)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 99

TOPIC TAGS: test method, ignition, surface ignition, knock, glowing deposit, fuel, lubricating oil

ABSTRACT: An Author Certificate has been issued for a test method for fuels and oils. The method involves allowing the build up of carbon deposits in the engine combustion chamber, and weighing them. In addition, the surface-ignition tendency of the fuels and oils due to glowing deposits is determined by operating the engine or benzene to burn off the deposit. The number of cycles with glowing deposit-induced surface ignition is recorded. The so-called "glow number" is calculated as the ratio of the number of such surface-ignition cycles for the sample and for a standard carbon depositing fuel.

SUB CODE: 11, 21/ SUBM DATE: 04Feb65/ ATD PRESS: 4219  
Card 1/1 ULR UDC: 621.43-63

[SM]

L129345-66 EWT(m)/T WE

ACC NR: AP5027725

(A)

SOURCE CODE: UR/0065/65/000/009/0001/0005

AUTHOR: Bursian, N. R.; Maslyanskiy, G. N.; Volnukhina, N. K.

50

Zabryanskiy, Ye. I.

ORG: VNIIneftekhim

TITLE: Obtainment of high octane motor vehicle gasoline from blends  
of isoparaffin components and catalytically reformed gasoline

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 9, 1965, 1-5

TOPIC TAGS: motor vehicle gasoline, gasoline, fuel octane rating,  
liquid fuel, petroleum fuel, fuel additive, tetraethyl lead, catalytic reforming, isopentane

ABSTRACT: The 1965-1970 plan for the development of the national economy of the SSSR requires that the octane number of motor vehicle gasoline for domestic consumption be raised to 95. Experimental results show that motor vehicle gasoline with a GOST grade of 90 can be obtained by blending catalytically reformed gasoline with a lower octane number gaso-

Card 1/2

UDC: 665.521.23

L 29345-66

ACC NR: AP5027725

obtained with 0.41 g TEL/1 kg gasoline on the base of catalytically reformed gasoline with a 95 octane number and up to 30 wt. percent additions of isopentane and isoparaffin components with an octane number of 100, 101, 102, 103 octanes and 3 tetenes.

SUB CODE: 21 / SUBM DATE: none / SOV REF: 003

Card 2/2 06

BURSLAN, N.R.; MASLYANSKIY, G.N.; VOLNUKHINA, N.K.; ZAERYANSKIY, Ye.I.

Using isoparaffinic components and catalytic reforming gasolines  
in the production of high-octane automobile fuels. Khim. i tekhn.  
topl. i masel 10 no.9:1-5 S '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh  
protsessov.

ZAHRYANSKIY, Yefim Il'ich; ZARUBIN, Aleksandr Pavlovich; KOLEDOWA,  
G.I., red.

[Detonation resistance and ignitability of motor fuels;  
determination methods] Detonatsionnaya stoikost' i vos-  
plamennaya most' motornykh topliv; metody opredeleniya.  
Moskva, Khimiia, 1965. 211 p. (MIRA 18:8)

MASLYANSKIY, N.G.; ZABRYANSKIY, Ye.I.; KAMUSHER, G.D.; PANNIKOVA, R.F.

Detonation stability of gasolines from catalytic reforming. Khim.i  
tekh.topl.i masel 8 no.2:49-52 F '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh  
protsessov i Vsesoyuznyy nauchno-issledovatel'skiy institut po  
pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo  
topliva.

ZABRYANSKIY, Ye. I., LOSAYEV, K.N., SHCHEGOL', V.V.; ARONOV, D.M.;  
ZARUBIN, A.P.

Electronic detonation meter DP-60. Khim. i tekhn. topl. i naasel  
8 no. 6:65-69 Je '63. (MIRA 16:6)

(Gasoline-Testing)

S/065/63/000/002/005/008  
E194/E484

AUTHORS: Maslyanskiy, N.G., Zabryanskiy, Ye.I., Kamusher, G.D.,  
Pannikova, R.F.

TITLE: The detonation stability of gasoline produced by  
catalytic reforming

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.2, 1962,  
49-52

TEXT: After a review of the motor and research methods of determining the octane number of gasoline and the meaning of sensitivity, the use of these methods to assess the detonation characteristics of gasoline produced by catalytic reforming is described. The gasolines were produced by reforming fractions 85 to 180 and 105 to 180°C, produced by rectification of straight run gasoline in the Ufimskiy ordena Lenina neftepererabatyvayushchiy zavod (Ufa Order of Lenin Petroleum Refinery). A study was first made of the influence of the aromatic content of the gasoline which was varied by altering the process temperature; raising the aromatics content increased both the octane number and the sensitivity. Tests made with reforming pressures of 20 and 40 kg/cm<sup>2</sup> showed that this variable had very little effect on the

Card 1/2

The detonation stability ...

S/065/63/000/002/005/008  
E194/E484

detonation characteristics of the gasoline of given aromatics content. Tests of the influence of reformed gasoline yield on octane number would yield a similar picture, the higher the yield and, therefore, the lower the aromaticity and octane number the lower the sensitivity. The addition of 0.5 ml t.e.l. concentrate P-9 (R-9) per kg gasoline raised both the motor and research octane numbers by about four points. There are 4 figures and 2 tables.

ASSOCIATION: VNIIINeftekhim, VNII NP

Card 2/2

S/065/60/000/010/009/010  
E030/E412

AUTHORS: Pankov, I.A., Zabryanskiy, Ye.I., Zarubin, A.P.  
Shchegol', V.V. and Aronov, D.M.

TITLE: Apparatus IT 9-6 (IT 9-6) for Determining the Research Octane Number of Motor Gasolines

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.10,  
pp.49-54

TEXT: A new single-cylinder apparatus, IT 9-6, has been developed for determining the research octane number of automobile fuels. After 150 hours of trials, the results were verified to conform to the specification FOCT 8226-56 (GOST 8226-56). It was put into full-scale production in 1960 and is being used in the domestic production of motor gasoline. The effective cylinder capacity is 652 cc, the cylinder diameter being 85 mm and the stroke 115 mm. The compression ratio can be varied between 4 and 10. The coolant is maintained at 100°C, air is taken in at 52°C and there is no heating of the mixture after the carburettor. The oil pressure is maintained at about 2.0 kg/cm<sup>2</sup> and the engine Card 1/2

S/065/60/000/010/009/010  
E030/E412

**Apparatus IT 9-6 (IT 9-6) for Determining the Research Octane  
Number of Motor Gasolines**

runs at 600 rpm. As usual, the mixture is adjusted for maximum knock and the reference fuels are iso-octane and n-heptane. Complete linearity between pressure and compression ratio as measured has been checked for compression ratios from 4 to 10. The accuracy of the octane ratings have been checked against the standard ASTM fuels. There are 8 figures and 2 tables.

Card 2/2

ROBERT, Yu.A.; ZABRYANSKIY, Ye.I.

Blending ratings of gasolines and components. Khim.i tehn.  
topl.i masel 4 no.2:57-62 F '59. (MIRA 12:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke  
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.  
(Gasoline)

POLAND

KOWARZYKOWA, Zofia, ZABRZYCKI, Jan, KARPIAK, Stanislaw E.,  
KOWALEWSKA, Danuta, PERYT, Alina, and CZECHOWICZ, Kazimierz;  
Institute of Immunology and Experimental Therapy (Instytut  
Immunologii i Terapii Doswiadczonej) im. L. Hirszfelda, PAN  
[Polska Akademia Nauk, Polish Academy of Sciences], Wroclaw

"Metabolic Gradient in the Embryo Heart."

Warsaw, Postepy Higieny i Medycyny Doswiadczonej, Vol 17,  
No 1-2, 63, pp 207-208.

Abstract: Preliminary report. Comparative studies of the  
PAS reaction in auricular and ventricular tissues of the  
chick embryo heart in vitro led to differential studies of  
the carbohydrate metabolism in pulps and extracts of these  
tissues. Biochemical determinations revealed a metabolic  
gradient, not previously noted to the knowledge of the  
authors. The five (5) references contain three (3) En-  
glish and two (2) Polish sources.

1/1

14

CZECHOSLOVAKIA / Inorganic Chemistry. Complex Compounds. C

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26711.

Author : Krause, A. and Zabtocka, K.

Inst : Not given.

Title : An Associate of Fe Polyorthohydroxide.

Orig Pub: Roczniki Chem, 32, No 2, 405-408 (1958) (in Polish  
with a German summary).

**Abstract:** The slow aging of  $\text{Fe}(\text{OH})_3$  proceeds according to the scheme: orthohydroxide (I) (amorphous)  $\rightarrow$  polyorthohydroxide (amorphous)  $\rightarrow$  polyorthohydroxide associate (II)  $\rightarrow \alpha\text{-Fe}_2\text{O}_3$  (III). When I is dehydrated rapidly in an autoclave at  $150^\circ$  large crystals of III are formed without marked intermediate formations. When  $\text{FeCO}_3$  is oxidized with hydrogen peroxide at  $20^\circ$  and  $\text{FeSO}_4$  is treated with  $\text{H}_2\text{O}_2$  and then with  $\text{NH}_3$ , the topochemical formation of orthohydrox-

Card 1/2

42

CZECHOSLOVAKIA / Inorganic Chemistry. Complex Compounds. C

Abs Jour: Ref Zhur-Khimija, No 8, 1959, 26711.

Author : Krause, A. and Zabtocka, K.

Inst : Not given.

Title : An Associate of Fe Polyorthohydroxide.

Orig Pub: Roczniki Chem, 32, No 2, 405-408 (1958) (in Polish  
with a German summary).

Abstract: The slow aging of  $\text{Fe(OH)}_3$  proceeds according to the scheme: orthohydroxide (I) (amorphous)  $\rightarrow$  polyorthohydroxide (amorphous)  $\rightarrow$  polyorthohydroxide associate (II)  $\rightarrow$   $\alpha\text{-Fe}_2\text{O}_3$  (III). When I is dehydrated rapidly in an autoclave at 150° large crystals of III are formed without marked intermediate formations. When  $\text{FeCO}_3$  is oxidized with hydrogen peroxide at 20° and  $\text{FeSO}_4$  is treated with  $\text{H}_2\text{O}_2$  and then with  $\text{NH}_3$ , the topochemical formation of orthohydrox-

Card 1/2

L 22932-66 DIAP  
ACC NR: AP6014802

SOURCE CODE: 02/0038/65/000/011/0428/0429

AUTHOR: Banas, Julius; Zabudan, Milan

ORG: Radiobiology Section, Institute of Experimental Biology SAV, Kosice (Ondelenie radiobiologie Ustavu experimentalnej biologie SAV)

TITLE: Continuous recording of spectra with a DRg-140 recording instrument and a NZG-319 single-crystal gamma-II scintillation spectrometer using a NUG-16 Mlasica level of radioactivity

SOURCE: Jaderna energie, no. 11, 1965, 428-429

TOPIC TAGS: radiation source, scintillation spectrometer, gamma spectrometer

ABSTRACT: An instrument is described, which is simple, sufficiently sensitive, and can follow with great precision the course of the spectrum of a measured radiation source. Any integrator can be used as the integration circuit. The possibilities of application of the instrument in the laboratory with only a small financial outlay is pointed out. This paper was presented by O. Novakova. Orig. art. has: 3 figures and 1 table. [NA]

SUB CODE: 20 / SUBM DATE: none / OTH REF: 001

UDC: 539.166.07

Card 1/1-10

MARGORIN, G.N.; ZABUDKIN, I.L.; GAZIZOV, D.Kh.

Continuous-action shell type blasting charge. Trudy Alt. GMVII AN  
(MIRA 17:3)  
Kazakh. SSR 15:138-145 '63.

L 34075-66	EWT(m)/T	WW/JW/JWD	SOURCE CODE: UR/0127/66/000/004/0058/0060
ACC NR: AP6012863		AUTHOR: Brichkin, A. V. (Professor, Doctor of technical sciences); Zabudkin, L. L. (Candidate of technical sciences); Nizovkin, V. M. (Engineer); Baydal'nov, G. A. (Engineer); Yeremin, B. F. (Engineer); Zayats, Ya. S. (Engineer) 40B	
ORG: [Brichkin, Zabudkin, Nizovkin] Kazakh Polytechnic Institute (Kazakhskiy politekhnicheskiy institut); [Zayats, Baydal'nov, Yeremin] "Mirgalimsay" Mine (Mirgalimsay rudnik)			
TITLE: Industrial tests of igdanits at the "Mirgalimsay" mine			
SOURCE: Gornyy zhurnal, no. 4, 1966, 58-60			
TOPIC TAGS: explosive, explosive charge			
ABSTRACT: In December 1964, tests of igdanites (explosives composed of granulated ammonium nitrate and diesel oil) were begun at the "Mirgalimsay" mine for the purpose of determining the amount of toxic gases formed during their explosion, and the effectiveness of the explosives. The tests showed that the total amount of toxic gases evolved by the igdanites was no greater than in the case of detonite or dinaphthalite. The effectiveness of several types of charging machines was also studied. The substantial advantages of charging blast holes by means of the ZDU-50 machine are listed. The machine gives a charging density of 1.15 g/cm <sup>3</sup> ; its use for 10 months in 1965 permitted the charging of 20,000 m of blast holes, for which 35,000 kg of igdanit was used, and 95,000 tons of ore was blasted loose. The total savings for this period was 10,200 rubles. Orig. art. has: 2 tables. [08]			
SUB CODE: 19 / SUBM DATE: none / ATD PRESS: 5/15 UDC 662.242.612.272			
Card 1/1			

AMANKULOVA, D.S.; VISHNEVSKIY, V.F.; ZABUICKINA, N.G.; ASHIAGINA, V.O.V.

Tracing particle tracks in emulsion piles. Prib.i tekhnicheskogo.  
no.1:112-113 Ja-F '60. (MIRA 13:6)

I. Institut yadernoy fiziki AN KazSSR.  
(Photography, Particle track)

21.5200

69089

S/120/60/000/01/033/051

E032/E314

AUTHORS: Amankulova, D.S., Vishnevskiy, V.F., Zabudkina, N.G.  
and Ashlagina, Ye.V.

TITLE: A Method for Following Particle Tracks in Emulsion Stacks R

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 1,  
pp 112 - 113 (USSR)ABSTRACT: It is often necessary to follow particle tracks  
(including minimum ionization tracks) from one emulsion  
layer to another. The present authors have used the  
following method. An oil immersion objective  
(900 - 1500 X) was used to inspect a finite length of  
the track which had to be followed into the next  
emulsion layer. A drawing of the track was then made  
on a tracing paper. In addition, a drawing was also  
made on the same paper of two or three near-black or  
grey tracks which were also going into the next emulsion.  
Next, using a low magnification (150-200 X) a drawing  
was made of a few more (3-5) black or grey tracks.  
These drawings were chosen so as to occupy the whole field  
of view. The necessary distances and angles were measured  
with the aid of an eye-piece scale and a goniometer. It

Card1/2

69089

S/120/60/000/01/033/051  
E052/E314

A Method for Following Particle Tracks in Emulsion Stacks

is convenient to choose the scale so that under low magnification one division of the eye-piece scale corresponds to 1 mm on the drawing. Using another piece of tracing paper a similar drawing (low magnification) was made of 5-10 tracks in the next emulsion and in the neighbourhood of the exit point of the track under investigation. By superimposing the second track on the first it was possible to choose a position for which the ends of the tracks match in the two drawings. The drawings are then used as a coordinate system relative to which the expected position of the track under investigation in the second emulsion layer can be determined. This is an abridged translation.

There are 9 references, 3 of which are Soviet and 6 English.

ASSOCIATION: Institut yadernoy fiziki AN KazSSR (Institute of Nuclear Physics, Ac.Sc. KazSSR)

SUBMITTED: January 2, 1959

Card2/2

4

TERESHCHENKO, V.I.; ZABUD'KO, A.A.

Angular deformations of the girth sheets in tee-joints. Avtom.  
svar. 18 no.10:26-30 0 '65. (MIRA 18:12)

1. Institut elektrosvarki im. Ye.O. Patona AN UkrSSR.

TERESHCHENKO, V.I.; ZABUDOVKO, A.A.

Increasing of plastic deformation zones in T-joint elements during the  
automatic welding of a second corner joint. Avtom. svar. 16 no.4:50-54  
Ap '63. (MIRA 16:4)

1. Institut elektrosvarki im. Ye.O.Patona AN UkrSSR.  
(Electric welding) (Thermal stresses)

ZABYD'KO-REYNGARD, T. M. AND REYNGARD, L. V.

"The effect of hypophysis injections on the morphology of the transition of non-fertilizable roe to fertilizable roe," Nauch. zapiski (Dnepropetr. gos. un-t), Vol. XXII, 1948, p. 177-88 - Bibliog: 7 items

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

ZABUD'KO-REYNGARD, T. N.

Zabud'ko-Reyngard, T. N., Reyngard, - "On the problem of the effect of commercial pyrethrum on lice (Anoplura)," Nauch. zapiski (Dnepropetr. gos. un-t), Vol. XXII, 1948, p. 259-62.

SO: U-3950, 16 June 53, (Letopis, 'Zhurnal 'nykh Statey, No. 5, 1949).

ZABUD'KO-REYNGARD, T. N.

Zabud'ko-Reyngard, T. N., Reyngard, L. V. - "Matricaria inodora as a good, but little investigated insecticide," Nauch, zapiski (Dnepropetr. gos. un-t), Vol. XXII 1948, p. 277-78

HEYNGARD, L.V.; GORITSKAYA, V.V.; ZABUDKO-HEYNGARD, T.N.

Causes of ineffectiveness of barter method of application of hexachloro-  
cyclohexane in houses in certain regions along waterways. Med. parazit.,  
Moskva no.3:237-238 May-June 1953. (CIAU 25:1)

1. Of Dnepropetrovsk State University.

REYNGARD, L.V., professor; ZABUD'KO-REYNGARD, T.N., kandidat biologicheskikh nauk.

"Warm spring" near Dnepropetrovsk. Priroda 45 no.4:116-117 Ap '56.  
(MLRA 9:7)

1.Dnepropetrovskiy gosudarstvennyy universitet.  
(Dnepropetrovsk Province--Springs)

ZABUD'KO - REYNGARD, T.N.

USSR/Zooparasitology - Flies and Insects as Disease Vectors.

0.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67568

Author : Reyngard, L.V., Goritskaya, V.V., Zabud'ko-Reyngard, T.N.

Inst : -  
Title : The Effect of Complete Treatment of Buildings with DDT  
Preparation, Cutting Down Bottom Forest, and Meteorological  
Factors on Variations in the Numbers of Blood-Sucking  
Mosquitoes in the Kakhovskiy Hydroelectric Center Region.

Orig Pub : Zool. zh., 1957, 36, No 3, 421-424.

Abstract : When the buildings of a village located in the Nikopol'-  
skiye bottom land region (zone of the future Kakhovskiy  
Reservoir) were treated in 1952-1954, the number and age  
composition of the Anopheles maculipennis population decli-  
ned sharply. In 1953 their number in the settlement in-  
creased due to a heavy inundation and the incomplete treat-  
ment of all the houses in the village. In 1954, when the  
forest in the bottom land had been completely destroyed,

Card 1/2

- 23 -

ZABUDLY, V.

Government resolution on measures concerning production of electric power. p. 3  
(Strojnoelektrotechnicky Gasopis, Bratislava. Vol. 3, no. 1, 1952)  
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6,  
June 1955, Uncl.

ZABUDLY, V.

"Economical Design of Electric Contactors." p. 275,  
(ELEKTROTECHNIK, Vol. 9, No. 9, Sept. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4  
No. 5, May 1955, Uncl.

ZABUDLY, V.

"Deficiencies in the Operation of Rolling Mills." p. 277,  
(ELEKTROTECHNIK, Vol. 9, No. 9, Sept. 1954, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4  
No. 5, May 1955, Uncl.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

ZABUDLY, V.

Development of short-circuit currents in the Czechoslovak extra-high-voltage system. Bul EGU no.1:22-26 '64.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

ZABUDSKIY, B.D., Cand Med Sci--(disc) "The use of artificial radioactive isotopes for the study of capillary circulation and lymphocirculation in the <sup>blood</sup> skin (lung) of humans and animals." Stalinabad, 1958. 19 pp (Stalinabad State Med Inst im Abuali ibn-Sino (Avicenna), 200 copies (YL, 26-58, 116)

-- 16/3 --

ZABUDSKIY, B.D.

Further studies on the use of artificial radioactive isotopes  
in studying capillary blood circulation in the human skin.  
Trudy Stal.med.inst. 21:81-89 '56 (MIRA 11:8)  
(SKIN--BLOOD SUPPLY)

ZABUDSKIY, B.D.

Study on the speed of removal of  $^{113}\text{I}$ -labelled albumin from the  
human skin; preliminary report. Trudy Stat.med.inat. 21:91-92 '56  
(MIRA 11:8)

(PROTEIN METABOLISM)  
(LYMPHATICS)

ZABUDSKIY, B.D.

Effect of muscular stress on the blood flow in the skin during  
the exposure of man to valley and high-mountain conditions. Trudy  
Tadzh. med. inst. 62:37-39 '63. (MIRA 17:12)

1. Tadzhikekiy meditsinskiy institut imeni Abuali ibni Sino,  
Dushanbe.

ZAEUDSKIY, B.D.; LORENTS, O.G.

Kavetskiij's test at various altitudes. Trudy Tadzh. med. inst.  
(MTTA 17:12)  
62:43-46 '63.

1. Tadzhikskiy meditsinskiy institut imeni Abuali ibni Sine,  
Dushanbe.

1. ZABUGA, D. D.
2. USSR (600)
4. Dairy Cattle - Feeding and Feeding Stuffs
7. My experience in feeding cattle for milk production, Sots.zhiv. 15 no. 5, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

TOVBIN, M.V.; ZABUGA, V.Ye.; ZHEERATSKIY, S.N.

Catalytic activity of mechanical mixtures of  $\alpha$ - and  $\gamma$ -iron  
in the ammonia synthesis reaction. Ukr. khim. zhur. 31 no.9:  
915-918 '65. (MIRA 18:11)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko.

TOVBIN, M.V.; ZABUGA, V.Ya.; PRIKHOD KO, V.P.; TOVBINA, Z.M.

Effect of additions of iron alloys on the activity of the industrial catalyst for ammonia synthesis. Kin. i kat. 5 no.3:555-558 Mg-Je '64.  
(MIRA 17:11)

1. Kiyevskiy gosudarstvennyy universitet imeni Shevchenko.

ZABUGIN, F.D.

Leucocytosis in children following cerebral affections. Zmr.zewr. i psiki.  
53 no.5:336-339 Ky '53. (ISSN 6:5)  
(Leucocytosis) (Brain--Diseases)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

ZABUGIN, V.D. (Moskva)

Treatment of chronic forms of acquired toxoplasmosis.  
Zhur. nevr. i psikh. 65 no.3:441-444 '65. (MIR. 18:4)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

ZABUGIN, F.D.; SMAYKINA, M.G. (Moskva)

Two cases of toxoplasmosis. Zhur. nevr. i psich. 60 no.3:312-314  
'60. (MIRA 14:5)

(TOXOPLASMOSIS)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

ZABUGIN, F.D.; SMAYKINA, M.G.

Clinical aspects of acquired toxoplasmosis (chronic form).  
Zhur. nevr. i psich. 62 no.3:413-416 '62. (MIFA 15:3)

1. Poliklinika Gosplana SSSR, Moskva.  
(TOXOPLASMOSIS)

ZABUGIN, F.D. (Moskva)

Mariia Pavlovna Postavskaya; obituary. Zhur. novr. i psikh.  
61 no.7:1104-1105 '61. (MIRA 15:6)  
(POSTAVSKAIA, MARIIA PAVLOVNA, 1865-1961)

ZABUGIN, F.D. (Moscow).

In memory of the teacher G.I.Rossolimo. Zhur.nevr.i pejkh. 51 no.9:688-S '53.  
(MIRA 6:9)  
(Rossolimo, Grigerii Ivanovich, 1860-1928)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

ZABUGIN, F.D. (Moskva)

Latent form of acquired toxoplasmosis. Fel'd. i akush. 26 no.8:  
28-30 Ag '61. (MLRA 14:10)  
(TOXOPLASMOSIS)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

ZABUGIN, F.D.; SMAIKINA, M.G. (Moskva)

Toxoplasmosis and its control. Fel'd. akush. 26 no.12: 24-27  
D '61. (MIRA 14,12)  
(TOXOPLASMOSIS)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

ZAEUGIN, F.D.

Symptomatology of an acquired toxoplasmosis with a chronic course.  
Zhur. nevr. i psikh. 65 no.7:1090-1092 '65. (MIFI 18:7)

1. Poliklinika (glavnnyy vrach M.G.Smaykina) Soveta narodnogo khozyaystva  
SSSR, Moskva.

ZABUGIN, F.S.

Disorders of vegetative functions. Zhur.nevr.i psikh. 55 no.5:  
400 '55. (NERVOUS SYSTEM, SYMPATHETIC—DISEASES) (MLRA 8:7)

ILLARIONOVA, L.F., inzh.; ANASHKIN, P.P., inzh.; ZABUGIN, P.F., inzh.;  
GOSTEV, R.I., inzh.

Mesh-reinforced channel roofs in construction for the transportation  
industry. Transp. stroi. 12 no 25:32-35 My '62. (MIRA 15:6)  
(Roofing, Concrete)

ZABUGINA, E. A., PAVLENKO, V. N.; VASIN, A. V.

Saratov Scientific Research Veterinary Experimental Station.

"Determination of the concentration of SO<sub>2</sub> in gas chambers  
with the use of saturated solution of calcium hydroxide."

SO: Veterinariia 24(1), 1947, p. 26.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

TEIMAN, M.S.; ZABUGINA, G.F.

Chondroma of the pelvis. Vest.Khir. 84 no.6:118-119 Je '60.  
(MIRA 13:12)  
(PELVIS--TUMORS)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

ZABUGINA, M.P., KONIUKH, I.V., KONSTANTINOV, A.A.

Capillary microviscosimeter for polymer melts.

Report presented at the 13th Conference on high-molecular compounds  
Moscow, 8-11 Oct 1962

VINOGRADOV, G.V.; ZABUGINA, M.P.; KONSTANTINOV, A.A.; KONYUKH, I.V.; MALKIN, A.Ya.; PROZOROVSKAYA, N.V.

Viscosity measurements of polymers in the condensed state by rotatory and capillary instruments. Vysokom.sosed. 6 no.9:1646-1650 S '64.

(MIRA 17:10)

1. Institut neftekhimicheskogo sinteza AN SSSR.

SOV/124-58-1-1239

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 155 (USSR)

AUTHORS: Prigorovskiy, N. I., Preiss, A. K., Zhukovskiy, V. S., Zabugina, N. A., Bezhodarnyy, B. N.

TITLE: Stress and Strain Determination in Parts of the Runner Hubs of Hydraulic-turbine Models (Opredeleniye napryazheniy i perme-shcheniy v detalyakh vtulok rabochikh koles gidroturbin na modelyakh)

PERIODICAL: V sb.: Gidroturbostroyeniye. Nr 4. Moscow-Leningrad, Mashgiz, 1957, pp 145-176

ABSTRACT: Presentation of the fundamental results of strain-gage investigations of stresses and strains in models of various versions of runner-hub casing design. The investigations were performed during the design stage of the variable-pitch blade turbines for the Kuybyshev and Stalingrad Hydroelectric Power Stations. Basic remarks on the investigative techniques are also adduced.

From the résumé

Card 1/1

*Inst. Machine Studies AS USSR*

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5

BOKSHTEYN, M.F.; kand. tekhn. nauk; ZABUGINA, N.A., inzh; PRIGOROVSKIY, N.I.,  
prof., doktor tekhn. nauk; KHURSHUDOV, G.Kh., inzh.

Using models made of plastics in investigating stresses in  
large-size presses. Vest. mash. 39 no.1:69-74 Ja '59.  
(MIRA 12:1)

(Power presses--Models) (Strains and stresses)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320020-5"

OVCHINNIKOV, N.L.; ZABUGORNOV, D.V.

Geologic and economic estimates of copper ore deposits. Nit.po  
geol.i pol.iskop.Urala no.10:157-167 '62. (MIRA 16:2)  
(Geology, Economic) (Copper ores)

ZABUGOROV, D. V.

5513 Zabugornov, D. V. Opyt primeneniya tverdooplavnykh koronok novykh konstruktsiy (Ural'skoye Geol. Upr.) M. Geogeoltekhizdag, 1954 16 s.s.  
Graf. 22 sm. (Opyt Raboty novatorov geol. sluzhby). 2.000 eks. Bapl.  
--Na obl. Avt. ne ukazan.-(55-988) P 622.243.54 622.24.05

SO: Knishnaya Letopis', Vol. 1, 1955

Zabugorov, D.V.  
ZABUGOROV, D.V.; KHALIN, V.A.

Using the ZIN-1200A rig for high-speed completion of a 900-meter  
well. Razved. i okh. nadr 23 no.6:43-45 Je '57. (KIRA 11:2)

1. Ural'skoye geologicheskoye upravleniye.  
(Boring machinery)

ZABULOVICH, D.G.; L'VOVSKIY, A.Ya.

Heat treatment of rod-shaped parts by heating in an induction furnace with a lateral magnetic field. Biul.tekh.-ekon.inform.  
Gos.nauch.-issl.inst.nauch.i tekhn.inform. 16 no.10:30-33 '63.  
(MIRA 16:11)

KRATINA, Ye.; ZABULIKA, V., red.; TELPIS, V., tekhn. red.

[How we obtained 161 centners of corn per hectare] Kuri am obtisimt  
kyte 161 chentnere de pepushoi la khektar. Kishineu, Editura de  
stat "Kartia moldoveniaske," 1959. 13 p. (Kak my poluchili 161  
tsentner kukuruzy s gektara) (MIEA 14:10)

(Moldavia—Corn (Maize))

PRINTS, Ya.I., prof.; ZABULIKA, V., red.; MILIAN, N., tekhn. red.

[Cultivation of scion-rooted grapes in Moldavia] Kultura  
vitsei de vie nealtoite yn Moldova; editsiia a doua.  
Kishineu, Editura de stat "Kartiia moldoveniaske," 1960.  
96 p. (MIRA 15:3)  
(Moldavia—Grapes)

KRIKLIVYY, Anatoliy Georgiyevich; ZABULIKA, V., red.; KAPITSA, V., tekhn.  
red.

[Fattening young cattle; obtaining high weight gains in loose  
housing] Otkorm molodniaka kurpnogo rogatogo skota; opyt poluchs-  
nia vysokikh privesov pri bespriviaznem soderzhanii. Kishinev,  
Gos. izd-vo "Kartia moldoveniaske," 1961. 23 p. (MIRA 14:10)  
(Beef cattle--Feeding and feeds)

DOLGOV, Aleksandr Mikhaylovich, kand. sel'khoz. nauk; ZABULIKA, V., red.;  
KURMAYEVA, T., tekhn.

[Qualitative improvement of the herd] Kachestvennoe uluchshenie  
stada zhivotnykh. Kishinev, Gos. izd-vo "Kartia moldoveniiske,"  
1960. 14 p. (Stock and stockbreeding) (MIR 14:10)

VAYN, Lazar' Il'ich; ZABULIKA, V., red.; ZHEMANYAN, N., tekhn. red.

[For obtaining 70 per cent of young pigs in the first half year]

Za poluchenie 70% porosiat v pervom polugodi. Kishinev, Gos.  
izd-vo "Kartiiia moldoveniasko," 1961. 13 p. (MIRA 14:10)

1. Glavnnyy zootekhnik Chadyr-Lungskogo rayona (for Vayn).  
(Moldavia—Swine)

KRYLOV, M., starshiy zootekhnik; ZABULIKA, V., red.; TARAKANOVA, V., tekhn.  
red.

[Mixed-feed mill] Kombikormovyj zavod. Kishinev, Gos. izd-vo  
"Kartia moldoveniaske," 1961. 15 p. (MIRA 14:10)

1. Ministerstvo sel'skogo khozyaystva Moldevskoy SSR (for Krylov).  
(Feed mills)

BRONFMAN, L.I.; POLONSKIY, L.S.; ZABULIKA, V., red.; TARAKANOVA, V., tekhn.  
red.

[Small-scale mechanization for the maintenance of swine in large  
groups] Malaia mekhanizatsiya pri krupnogruppovom soderzhanii svinei.  
Kishinev, Gos. izd-vo "Kartia molodoveniaske," 86 p. (MIRA 14:7)  
(Swine houses and equipment)

ZABULONOV, M.S.; GLEZER, L.S.; SHCHERBININ, A.V., inzh.-tekhnolog;  
LITVAK, I.K.; GENIS, B.M.; KALEDIN, M.V.; ORLOV, V.A.;  
LEBEDYANSKIY, A.A.; CHASOVNIKOV, O.V.

Innovators of the First Bearing Plant have the floor. MTO  
no.3:8-12 Mr '63. (MIRA 16:4)

1. Aktivist Nauchno-tekhnicheskogo obshchestva 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Zabulonov, Shcherbinin, Orlov).
2. Zamstitel' predsedatelya soveta navodrov 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Glezer).
3. Predsedatel' sektsii kovki i shtampovki soveta Nauchno-tekhnicheskogo obshchestva 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Litvak).
4. Nachal'nik byuro tekhnicheskoy informatsii 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Genis).
5. Chlen Nauchno-tekhnicheskogo obshchestva, zamstitel' sekretarya partiynogo komitata 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Kaledin).
6. Nachal'nik avtomaticheskogo tsekha No. 2 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Orlov).
7. Predsedatel' energeticheskoy sektsii soveta Nauchno-tekhnicheskogo obshchestva 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Lebedyanskiy).
8. Zamstitel' predsedatelya zavodskogo soveta Nauchno-tekhnicheskogo obshchestva 1-go Gosudarstvennogo podshipnikovogo zavoda im. Kaganovicha (for Chasovnikov).

(Moscow--Bearing industry--Technological innovations)

ZABURDAYEV, V. I., inzh. (Tambov)

Casing of wells with asbestos-cement pipes on collective and  
state farms of Tambov Province. Gidr. i mel. 12 no.6:36-38 Je  
'60. (MIRA 13:7)

(Tambov Province--Artesian wells)  
(Pipe, Asbestos-cement)

KOCHEGAROV, V.M.; ZABURDAYEVA, F.I.; ZYABLOVA, Ye.A.

Electrochemical properties of indium. Zhur.prikl.khim. 35  
no.6:1376-1379 Je '62. (MIRA 15:7)

1. Taganrogskiy radiotekhnicheskiy institut.  
(Indium) (Electrochemistry)

S/080/62/035/006/012/013  
D204/D307

AUTHORS: Kochegarov, V. M., Zaburdayeva, F. I. and Zyablova,  
Ye. A.

TITLE: A study of the electrochemical properties of indium  
PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 6, 1962,

1376-1379

TEXT: Cathodic and anodic behavior of In in sulphate solutions were studied, due to the usefulness of such data for the development of the technology of In coatings. Solutions containing 0.01 - 1.0 moles/l were tested, at pH 2.5 and 20, 40 and 50°C, with Cu cathodes. At 20 and 40°C the cathodic polarization curves, measured at current densities (D) of 0 - 3 amp/dm<sup>2</sup>, consisted of a portion where the electrode potential changed little with increasing D, followed by a platform and a section where appreciable polarization took place. The values of D at which the sharp transition from one to the other sections occurred increased with rising concentration in the electrolyte. Cathodic and anodic current

Card 1/2

A study of the ...

S/080/62/035/006/012/013  
D204/D307

efficiencies ( $\eta$ ) were also measured at 20, 40 and 50°C for the same range of D. Cathodic  $\eta$ 's increased with D to maxima (~60 - 95% at 1 - 2 amp/dm<sup>2</sup>) and fell thereafter. It is hence believed that ionizations to In<sup>+</sup> and In<sup>2+</sup> are more probable at low D's, whilst ionization to metallic In is favored at higher current densities. Lowering of  $\eta$ 's past the maxima is ascribed to the vigorous evolution of H<sub>2</sub> occurring at higher D's. High cathodic D's and elevated temperatures are therefore recommended for the production of shiny, dense coatings. Anodic  $\eta$ 's calculated for In<sup>+</sup> were ~150% at low D's, falling to ~100% as the current density was increased, almost independently of temperature. High anodic D's or the use of insoluble anodes are, therefore, recommended with periodic additions of In<sub>2</sub>O<sub>3</sub> to the electrolyte. The interest and advice of A. N. Kharin are acknowledged. There are 4 figures.

ASSOCIATION: Taganrogskiy radiotekhnicheskiy institut (Taganrog Radiotechnical Institute)

SUBMITTED: July 3, 1961  
Card 2/2

KCCHEGAROV, V.M.; ZYABLOVA, Ye.A.; ZABURDAYEVA, F.I.

Electrochemical pickling of germanium in sodium hydroxide solutions.  
Zhur.prikl.khim. 37 no.7:1494-1498 Jl '64.

(MIRA 13:4)

ACCESSION NR: AP4041798

S/0080/64/037/007/1494/1498

AUTHOR: Kochegarov, V. N.; Zyablova, Ye. A.; Zaburdayeva, F. I.

TITLE: Electrochemical etching of germanium in sodium hydroxide solutions

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 7, 1964, 1494-1498

TOPIC TAGS: germanium, n type germanium, germanium single crystal, semiconductor device, electrochemical etching, sodium hydroxide electrolyte, germanium polarization

ABSTRACT: Electrochemical etching of n-type germanium in caustic soda solutions has been studied because this method offers certain advantages over chemical etching in the manufacture of semiconductor devices. The etching experiments were carried out with single-crystal germanium plates as the anode in 0.005, 0.05, 0.5, and 1.5 M NaOH, at 20, 40, and 50°C, with a current density of 0.1 to 1.50 amp/cm<sup>2</sup>. Anodic polarization curves are interpreted as an indication of chemical polarization accompanying electrochemical dissolution of germanium which forms Ge<sup>4+</sup> ions only at current densities above the

Card 1/2

ACCESSION NR: AP4041798

saturation current ( $0.1\text{amp}/\text{dm}^2$ ). The appearance of the etched surface and uniformity of etching improve with increased (up to a certain value) current density. The anodic current output decreases continuously when the current density or temperature are increased, but does not change appreciably with electrolyte concentration. Optimum concentration and operating conditions are given (NaOH concentration, 0.5 M; solution temperature, 20°C; current density,  $0.5 \text{ dm}^2$ ). Orig.

ASSOCIATION: none

SUBMITTED: 01Sep62

ATD PRESS: 3061

ENCL: 00

SUB CODE: IC, GO

NO REF SOV: 006

OTHER: 006

Card 2/2

ZABURDAYEVA, F.I.; KOCHEGAROV, V.M.; KHARIN, A.N.

Electrodeposition of antimony from the trifluoride electrolyte.  
Zhur. fiz. khim. 38 no.3:756-760 Mr '64. (MIRA 17:7)

1. Taganrogskiy radiotekhnicheskiy institut.

KRUTOYARSKIY, M.A.; LOPATIN, B.G.; BYSTROVA, O.A.; UKHANOV, A.V.; DUKHANIN,  
S.F.; ZABURDIH, K.S.

Kimberlites in the Omonos and Ukukit Basins. Trudy NICA 65:79-  
105 '59. (MIA 13:12)

(Omonos Valley--Kimberlite)  
(Ukukit Valley--Kimberlite)

SOV-135-58-9-11/20

AUTHORS: Zaburdin, M.K., Zakharenko, V.F., Shestakov, S.N., Engineers,  
and Tret'yakov, F.Ye., Candidate of Technical Sciences

TITLE: Butt Welding of Titanium and its Alloys on Modernized  
MSG-300" Machines (Stykovaya svarka titana i yego splavov  
na modernizirovannykh mashinakh tipa MSGA-300)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 9, pp 36-39 (USSR)

ABSTRACT: Information is presented on experimental investigations carried out by NIAT on butt contact welding of titanium ring blanks up to a cross section of 8,000 mm<sup>2</sup>. Commercially pure "VT-1D" and "VT-6" titanium (chemical compositions given in table 1) were investigated and it was stated that these titanium grades can be welded with or without preheating in accordance with technological parameters given in tables 3 and 4. Welding in argon is recommended and can be performed on modernized machines of the type "MSG-300" or "MSG-500" used at the "Elektrik" Plant. There are 4 tables, 6 micro-photos, 2 graphs and 1 diagram.

1. Titanium--Welding    2. Titanium alloys--Welding    3. Titanium alloys--Physical properties    4. Argon--Applications

Card 1/1

L 47467-66 EWT(d)/EWT(m)/EWT(f)/T-2  
ACC NR: AP6029068

(A)

SOURCE CODE: UR/0413/66/009/014/0123/0123

INVENTOR: Novikov, B. N., Zaburunov, E. A.

40  
B

ORG: none

TITLE: Internal-combustion-engine cylinder block

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 123

TOPIC TAGS: internal combustion engine, engine cylinder, engine component

ABSTRACT: This Author Certificate introduces an internal-combustion-engine cylinder block containing cylinders with cooling jackets and intake and exhaust pipelines. For greater rigidity and better performance of the piston group, the cylinders are integrated with the pipelines into one block. Orig. art. has: 1 figure. [SA]

SUB CODE: 21 / SUBM DATE: 08Apr65

mjs  
Card 1/1

UDC: 621.43-222-225.1

ZABUROV, Sh.M.

Ecology of the beet leaf miner *Pegomyia hyoscyami* Panz. and the  
cabbage maggot *Hylemyia brassicae* Ilbuche (Diptera, Anthomyiidae).  
Vest. LGU 17 no. 21:54-62 '62. (KREA 15:12)  
(BEET LEAF MINER) (CABBAGE MAGGOT)

ZABURUNOV, A.G.

Calculi of a ureteral stump. Trudy Kish. gos. med. inst., 24:  
256-258 '64  
(MIRA 18:1)

1. Urologicheskaya klinika Kishinevskogo gosudarstvennogo medi-  
tsinskogo instituta.

PARCHEVSKIY, V.P.; POLIKARPOV, G.G.; ZABURUNNOVA, I.S.

Some characteristics of the accumulation of yttrium and strontium by marine organisms. Dokl. AN SSSR 164 no.4:913-916 O '65.

(MIRA 18:10)

1. Institut biologii yuzhnykh morey im. A.O. Kovalevskogo AN UkrSSR.  
Submitted September 12, 1964.

ZABUSELOV, N. (Novokuznetsk); NAGORNYY, A.; BRYZGALOV, P.; SHABLOV, V.  
(Vologda); LARIONOV, dotsent (Moskva); MIROSHNICHENKO, V.  
(Sverdlovskaya obl.)

Readers' letters. - Posh. delo 9 no.9:30-31 S '63. - (MIRA 16:10)

1. Sotrudnik Rostovoskogo-na-Donu Upravleniya pozharnoy okhrany  
(for Nagornyy). 2. Nachal'nik Yelabuzhskoy gorodskoy pozharnoy  
chasti, Tatarskaya ASSR (for Bryzgalov).  
(Fire prevention)

ZABUJOV, V.L., prof. (Kazan')

Professor A.N.Mislavskii and his school; obituary. *Muz.-med.*  
zhurn. 40 no.2:5-11 Mr-Apr '59. (MIRA 12:11)  
(MISLAVSKII, ALEKSANDR NIKOLAEVICH, 1880-1958)